

LEONID 1999 COMPLETED TIMELINE
Day 99-321 (Instrument Power Off)

1. MPWROFF procedure started at 19:56:33
 MRVCMDST = OFF at 19:56:54
 MSPNUPCMDST = OFF at 19:57:06
 MAPWR = OFF at 19:57:28
 Survival Heaters ON at 19:57:43
 MPWROFF procedure completed at 19:57:50
2. PROFF procedure started at 19:58:08
 PR in Health Check at 19:58:17
 FCIF Powered OFF at 19:58:28
 RF Power Supply OFF at 19:58:45
 SCDP Powered OFF at 19:59:26
 PROFF procedure completed at 19:59:27
3. LPWROFF procedure started at 21:25:03
 LAPWR = OFF at 21:25:27
 LPWROFF procedure completed at 21:25:28
4. VRADCDRCL procedure started at 21:25:55
 Selected Primary Door Drive at 21:26:22
 Closed Rad Cooler Door at 21:26:45
 VRADCDRCL procedure completed at 21:27:12
5. VPWROFF procedure started at 21:27:34
 VSCNDRAPWR = OFF at 21:27:50
 VAPWR = OFF at 21:28:07
 VPWROFF procedure completed at 21:28:08

Day 99-322 (Instrument Power On)

1. MPWRON procedure started at 06:43:35
 Survival Heaters OFF at 06:44:16
 MAPWR = ON at 06:44:47
 MPWRON procedure completed at 06:45:24
2. MSPINUP procedure started at 06:45:51
 MSPNUPCMDST = ON at 06:48:38
 MSPINUP procedure completed at 06:48:39
3. MRCVRSON procedure started at 06:49:06
 MRVCMDST = ON at 06:49:20
 MRCVRSON procedure completed at 06:49:21

4. VPWRON procedure started at 06:50:11
VAPWRON sent at 06:50:47
VPWRON procedure completed at 06:50:58
5. VOPSHTRS procedure started at 06:51:12
V15WOHTR ON sent at 06:51:45
VOPSHTRS procedure completed at 06:52:20
6. VNORMOUTGAS procedure not conducted this year per PI/science request.
7. LPWRON procedure started at 06:53:06
LAPWR = ON at 06:53:28
LTHADJ sent at 06:54:29
LPWRON procedure completed at 06:54:35
8. LBKGNDMDON procedure started at 06:55:22
LBKGSNDON BG8KBPS sent at 06:55:42
LBKGNDMDON procedure completed at 06:55:43
9. LIS Heater Autoselect Disabled at 06:56:25
10. PRSTARTON procedure started at 08:13:54
PRSURVHTRS procedure started at 08:14:05
Disabled K1 survival heaters at 08:14:55
PRSURVHTRS procedure completed at 08:15:03
SCDP Powered ON at 08:16:31
FCIF Powered ON at 08:17:23
RF Power Supply ON at 08:17:43
PR in STANDBY at 08:18:14
PTXCODE103 procedure started at 08:18:41
PTXCODE103 procedure ended at 08:28:56
PRXCODE103 procedure started at 08:28:58
PRXCODE103 procedure ended at 08:33:50
PR in OBSERVATION at 08:34:35
PRSTARTON procedure completed at 08:34:36
11. PRXATTN SEL9DB command sent at 08:35:18
12. VMSISSMD procedure started at 08:56:04
VTIMEPATCH1 sent at 08:56:21
VTIMEPATCH2 sent at 08:56:33
VSCNDRV ON sent at 08:56:46
VMSISSMD procedure completed at 08:56:48

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| 13. VINSTGHTR OFF sent at | 08:57:21 |
| VLWIRGAIN ATTENUATE sent at | 08:57:47 |
| VSERVOMODE LOW sent at | 08:58:20 |
| VINFOFLGRST sent at | 09:01:36 |
| 14. VRADCDROP procedure started at | 08:58:44 |
| VRADCDOOR OPEN send at | 08:59:51 |
| VRADCDROP procedure completed at | 08:59:52 |

Day 99-324

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| 1. PRSURVHTRS procedure started at | 12:23:56 |
| Enabled K1 survival heater at | 12:24:23 |
| PRSURVHTRS procedure completed at | 12:24:31 |

Real-time Event Times During Leonid Storm Peak

Start Time	Stop Time
321/19:54:00	20:14:00
321/20:46:00	20:58:50
321/21:23:00	21:43:00
321/23:20:00	23:40:00
322/00:09:00	00:29:00
322/00:45:00	01:05:00
322/01:46:00	02:06:00
322/02:23:00	02:43:00
322/03:20:00	03:40:00
322/04:03:21	04:23:41
322/05:04:00	05:24:00
322/06:35:00	07:00:00
322/08:12:00	08:37:00
322/08:54:00	09:24:00